

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application.

Listing of Claims:

- 1 1. (Cancelled)
- 1 2. (Cancelled)
- 1 3. (Cancelled)
- 1 4. (Cancelled)
5. (Cancelled)
- 1 6. (Currently amended) The abrasive recovery apparatus of claim [[1]] & further comprising
2 a thermocouple disposed within the fluidized bed dryer to control the activation of the
3 fluidized bed dryer.
- 1 7. (Cancelled)
- 1 8. (Original) An abrasive recovery apparatus for use in conjunction with the slurry generated
2 by water jet cutting or conditioning operations, the slurry comprised of non-recyclable
3 fines and recyclable particles, the abrasive recovery apparatus comprising:
4 a slurry intake system for distributing collected slurry, the slurry intake system
5 having a sump pump, a nozzle-orifice arrangement, and a diaphragm pump, the sump
6 pump for passing the water into the nozzle-orifice arrangement for the collection of slurry
7 into the diaphragm pump, the diaphragm pump for forcing the slurry downstream from

8 the sump pump and for intermittently providing back flow through the nozzle-orifice
9 arrangement to dislodge slurry agglomerated at the opening to the nozzle-orifice
10 arrangement;

11 a vibrating separator downstream from the diaphragm pump for receiving the slurry
12 and separating the non-recyclable fines from the recyclable particles, the vibrating
13 separator having a distributor, a shaker filter, a waste spout, a recycle spout, a vibrator,
14 and a shaker table, the distributor being a shallow pan for receiving and distributing the
15 slurry to the shaker filter, the shaker filter having one or more screens to remove non-
16 recyclable fines from the slurry and pass through the waste spout, the shaker filter further
17 passing the recyclable particles through the recycle spout, the shaker filter further having
18 a plurality of screen brushes to agitate the slurry and prevent clogging upon action by the
19 vibrator and shaker filter; and

20 a fluidized bed dryer comprising a drying chamber, heating elements and a final
21 product spout, the drying chamber for receiving the recyclable particles from the recycle
22 spout, the heating elements for drying the recyclable particles, and the final product spout
23 for delivering dried recycled particles.

1 9. (Original) The abrasive recovery apparatus of claim 8 further comprising a control circuit
2 for selectively energizing the heating elements.

1 10. (Cancelled)

1 11. (Cancelled)

1 12. (Cancelled)

1 13. (Cancelled)